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(54) DIOLEFIN BASED POLYMER COMPOSITION, ITS PRODUCTION METHOD, AND VULCANIZATION RUBBER COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide polymer compositions which have good processability and, in addition, highly improved properties such as wet skid properties, low hysteresis loss properties (low rolling resistance properties), and abrasion resistance and are particularly used in low fuel cost and safety first tire treads, a process for producing the polymer composition, and vulcanization rubber compositions based on the polymer compositions.

SOLUTION: Diolefin based polymer compositions comprises (a) a polymer of a conjugated diolefin or a copolymer of a conjugated diolefin and an aromatic vinyl compound which has an alkoxysilyl group, a hydroxyl group and/or tin or and (b) a polymer of a conjugated diolefin or a copolymer of a conjugated diolefin and an aromatic vinyl compound which has an amino group, an alkoxysilyl group, a hydroxyl group and/or tin and either of said (a) or said (B) having a weight average molecular weight of 1,000-90,000 and the other having a weight average molecular weight of 90,000-2,000,000. A process for preparing the same and vulcanization rubber compositions using these compositions are disclosed.

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